EXHIBIT A

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[DNA92234], confirmed by phredphrap 2005 Sites] 28, >Thursday, April [Full] >887 Sites >DNA92234 > Ltb309

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tap509I[M.ecoRI-] taqI xhoI bsiwi/spli bstur tali **bsh1236I** maeII/hpycH4IV naphi Igen tail

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hphI

fnu4HI/bsoFI hpy18 TAGGIGACAC TATAGAGAG CTAIGACGIC GCATGCACGC GTACGIAAGC ICGGAAIICG GCTCGAGGAA TGAATACCIC CGAAGCCGCT TIGITCICCA ATCCACTGTG APATCTTCTC GATACTGCAG CGTACGTGCG CATGCATTCG AGCCTTAAGC CGAGCTCCTT ACTTATGGAG GCTTCGGCGA AACAAGAGGT aval[M.taqI-] apol aluI csp6I **hpyCH4V** earl/ksp6321 hpy991

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fnu4HI/bso

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alwI[dam-]

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sorFI[M.hpaII-]

mbol/ndeIl[dam-] dpnII[dam-} dpnI[dam+] alwI[dambatYI/xhoII bamHI ball sau3AI nlaIV muli rmal

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¢£ hgiAI/aspRI[M.aluI-AGTEGETIGEC CATCCAGAGE GACTCTGTCC AGCCTGTGCC TCGCTTCAGA CAAGAGCTCT TCAGAATGAT GITCICGAGA AGTCITACTA bsp1286[M.aluI-] bsifikal hpyl881 banII[M.aluI-] bmyI eco57I ec1136II sacī hpy1881. TCGGACACGG AGCGAAGTCT 8C057I mnlI ttb1111/aspr TCACCCACCG GTAGCTCTCG CTGAGACAGG pflei · hinfī pleI mlyI hpy188III haeIII/palI tagI mscI/ball eaeI cfrI ATTTGTGCAG ACGCTGAAGG TGCGACTTCC bsgI hgaI eco57I alw261/bsmAl alwNI[dcm-] hpyCH4V TAAACACGIC foki tsp5091 apoI ATCAGGATGA **DatE5I** TAGICCTACT hpy180III

GSeqEdit, DNA92234 [Full], page

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scrFI[dcm-]

gau96I[M.haeIII-] pspGI

pspowi/bsp1201 ecoRII[danmvaI

bstNI nlaIV dsaV[dcm-]

basKI[dcm-]

bsp1286[M.haeIIIhinPI

fnu4HI/bsoFI

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pvúII [M.**81**-]

aluI

SEII tsel bsadl bmyl hbaI/cfoI

6I [M.haeIII-] fnu4HI/bsoFI sau9 apyI[dcm+] bbvI

mboII

fnu4HI/bsoFI

tseI

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ppuMI ddel mspAll/nspBII

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ecool091/drail

Ivdd Ilnm

nlaIII

sau961 alwNI[dcm-]

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[M.haeIII-] banII **прусн4**у

haeIII/pall bsaJI apaľ alwNI[dcm-] ofc, haell

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nlaIV pstI(M.Hl-)

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haeIII/palI

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hi 4 4 GCTTGGATCA ATGCTGTGAG mbol/ndeII[dam-] INVOI dpnII [dan-] dpnI[dam+] alwI[dam-] sau3AI Bau96I[M.haeIII-] CTATGTGCTG ACGGAGGTAG ACGGGAAACT TTATGGACGA GGAGCGACCG ACAACAAGG CCCTGTCTTG ecool091/draII haeIII/palI bell beiEI ncrl baeRI **ILTH** accI mnlI TCACGGACCC Bau96I nlaIV avall

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TCCGGGATGG ATCCACCATT

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trugi tsel alui msel nlaIV fnu4HI/bsoFi sau96I[M.haeIII-]

GAGATGGCCC AGCTCCATTA ATCACAAGAA ;
haelli/pall asel/asni/vspl CILITICITA TTCCCAGAAT GAGAAATCA ACAGGTGGAA CTACATAGAG GGAACCAAAT TATTTGCTGC bbvI tap5091 II LUM

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TCGAGGTAAT TAGTGTTCTT CICIACCGGG QI Z Grarabagart 4 ATAAACGACG GATGTATCTC CCTTGGTTTA M TGTCCACCTT CTCTTTTAGT AAGCGTCTTA **O** Ø 479

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			٠				tsp5091	apol	hpy188III	TATCCAGAGA ATTTGG	でいるににおいまいの かるるるかい
			•					foki	batrsi	TGATCTGATC CACTGACAGA TTCACCTCCC CCACATCCCT AGACAGGGAT GGAATGTAAA TATCCAGAGA ATTTGGGTCT	<u>をいすいしょうきょう かいかいかいじょかん かいからいかい しょいしいかいしゅい ないからないない いまたないのでもない かんしんないない かんしんないないないないないないないないないないないないないないないないないない ないしんない かんしんない ないしんない ないしん ないしん ないしん ないしん ないしん ない</u>
				Imal	maeŢ	bslI	iled	fokī bfaī	batr91	CCACATCCCT AGACI	
	[dam-]		٠				Thom	tfir mull	hinfI[M.hphI-]	CAGA TTCACCTCCC	ひじひもりひょうする ようよう
sau3AI	mbol/ndell[dam-]	dpall[dam-]	dpnI [dam+]	hpy1881	sau3AI tspRI	hpy188I alwI[dam-]	mbol/ndell{dam-}	dpn[[[dam-]	dpnI[dan+]	TGATCTGATC CACTGA	ACTAGACTAG GTGACT
						fd ų	rmaI	nael	bfaI	1 CCTTCTAGIC	GGAAGAECAG

rsaI

TCATATCATG

AGTATAGTAC

		hpyCH4V	bagī	:/draII	tspRI	btsī	CCACTGCACA
sau96I	nlaiv	Ileve	IMudd	ecc01091/drall	tru9I	msel bamFI	TTAAGGTCCC
							TGGAAATGGT
							GCACAGATGT
						Ιά	TATITCAAAG
		[dam-	Ţ			Iges	TAPAR
	sau3AI	mbol/ndeil[dam-]	dpnII[dam-]	dpnI[dam+]	hpy188III	alwI[dam-]	TEGATC AGEAN
					Ţų	ecoRV	TTGGGA TAIX
				tru9I	mseI	ahalll/dral	CCATTIAAAA TGICTIGGGA TAICIGGAIC AGTAATAAA TAITICAAAG GCACAGAIGI IGGAAAIGGI ITAAGGICC CCACIGCACA

TCATTAITIT ATAAAGITTC CGTGTCTACA ACCETTACCA AATTCCAGGG GGTGACGTGT

ACAGAACCCT ATAGACCTAG

ATTTCCCTT

1901

TAAAAGGGAA

TEGRAPATCG TATAGAGGTT

CAACCTCGTT GAACTAAAGG GGTTCAGGAC ACGTTATCGG GGTCCTAACC TAAGGAAGGT

CAGTATCGAC

GGRAGGAGTT

Bmll

mali

TGCAATAGCC CCAGGATTGG AFTCCTTCCA ACCTTTAGC ATATCTCCAA hinfi ecoRII[dcm-] scrFI[dcm-] bssKI[dcm-] apy1[dcm+] dsaV[dcm-] betwi pspGI MVaI bsaJI ball **прусн4** CITECAGCAA CITGATITCC CCAAGTCCTG fnudHI/bsoFI **прусн4**V tseI bbvI fnu4HI/bsoFT cac8I GTCATAGCTG tseI bbvi atur 2001 CCTTCCTCAA

mbol/ndell[dam-] dpnII[dam-] dpnI[dam+] Sau3AI **bstr5I** fokI eccol091/drail hpyl88111 tap45I ·maeIII hgiai/aspHI **D88SI bsp1286 baiHKAI** bmyI amli mll sau96I avall IMndd rmaI maeI bfaI hpall bsaWI Idem tsp509I

AGIGCICGIG ACACATAAIC APTCCATCCA ANGATCGCCT TIGCITIFACC GGAACGTTAA ACTAACCGTA TTAGTGAGGC CAAACGAAAG ATCCAGGAGT TCACGAGCAC TGTGTATTAG TAAGGTAGGT TACTAGCGGA AACGAAATGG CCTTGCAATT TGATTGGCAT AATCACTCCG GTTTGCTTTC TAGGTCCTCA 2101

hpyCH4V

tru91

bamAI msel

tapRI bsaI asel/asnl/vspl

TTTTTTTT TTTTTTTT TTTTTTTT TTTTTTTT TGGTGACNGA GGGTTTTTTT ຕັ 2201 ACTUTTCCT TTTATCTTAT TARTAAAT GTTGGTCTCC TGAGAAAGGA AAATAGAATA ATTATTTTTTA CAACCAGAG

DNA92234 [Full], page 14 GSeqEdit,

sau96I rsaI rarII/cspI scrFI (M, hpall-) xmal/pspAl hpall basKI Iqem ncil dsav

nleIV kpnI scrif[M.hpail-) cpol nrol Sarl

aciı

hpy188111 csp61 tagi

ncii

ьвржи dsaV Ball sstI fnu4RI/bsoFI

banı sfci hincii/hindii[M.tagi-] avaii[M.hpaii-] BacI haeIII/palI

mael bapki cfr101/bargi asp718 tru91 msp1 hgiAI/aspHI[M.alul-] accI[M.tagi-] eagl/xmalli/eclXI alul MCKI

pstI acc651 bsaffī asel/asnl/vapl tsp509I bsp1286[M.aluI-] xumI baaKI ecl136II 1-1 問 bsiri eaeI cfrI

зве8387І abfī bmy i hpy991 aval[M.hpall-] hpall mspl bspMI accill hpall ageľ baall tsp509I bsaWI asp700 banII [M, aluI-] **bsinka**I apel bfa fnu4HI/bsoFI notI aclI

capéI aluI

rsaI

TEAGCICETO GACCOGGGAA TIAATICOGG ACCGGTACCI GCAGGCGTAC CAGCTTTCCC TITITITITI TITITITIT TITCCCGCCG GCGGCTGATC ACTCGAGCAG CTGGGCCCTT AATTAAGGCC TGGCCATGGA CGTCCGCATG GTCGAAAGGG CGCCGACTAG AAAAAAAAA AAAGGGCGC AAAAAAAAA

pleI

2301

mlyI

aluI hinfi TATAGIGAGT CGTATTAGAG CTIGG ATATCACTCA GCATAATCTC GAACC 2401

DNA92234 [Full], GSeqRdit,

> length: 2425

aatii (GACGTC):

DWA92234 [Full],

GSeqEd1

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1137 1144 1342 1363 1638
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                                                                                                                                           2016 2343
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                   727 1117 2348
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                                                                                                                                                    alw261 (Cagninctg):
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                                                                                                                                                                                  alwni (Cagningig) :
                                                                                                                                                                     alwi (GGATCNNNW):
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                                                                           aflli (ACRYGT):
                                                                                                                        ahaIII (TTTAAA):
accest (Getacc)
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                               accili (receen)
               acci (GTMKAC):
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                                                             acyl (GRCGYC):
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                                                                                           ageI (ACCGGT):
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                                                                                                                                                                                                                                apyl (CCMGG):
                                              acil(cccc):
                                                                                                                                      alul (AGCI);
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DNA92234 (Full), page 17

banII (GRGCYC);	484 533 809 2342
DDSI (GRAGACNNNNNN):	130 379 587
bbvI (GCAGC):	292 312 315 318 321 508 519 522 567 570 672 1235 1552 1756 2017 2024
bceai (acggchnnnnnnnnnn);	
bfal (CTAG) :	243 1210 1216 1396 1504 1805 1849 1889 2140 2337
bgli (gccnnnnnggc) :	535
bglii (agarcr):	822 .
DmyI (GDGCHC):	159 484 533 809 2152 2342
bpmI (CTGGAG):	96 258 325 814 883 1290
bpual (Gaagacninninni);	130 379 587
bsaal (Yacgtr) :	42 :
beahi (Grcgyc):	
bsai (getetenninn) :	1034 2234
bsaJI (CCNNGG):	139 359 503 528 545 684 812 881 995 996 1143 1516 2060 2353
bsawi (wccggw);	1226 2127 2366 2371
beeri (Gaggarnnnnnnn):	342 749 1270
bagi (Grecag):	415 670 1994
bah1236I (ccca):	38 331 1329
beiel (cgrycg):	755 2327
bsinkai (Gwgcwc) :	484 2152 2342
beini (cgtace) :	. 07
bali (ccnwwwnngg) :	135 184 274 275 354 396 614 631 771 1847 1848 2060
bemal (GICIC):	1034 2235
bemal (GTCTC):	1034 2235
Dempi (GGGrcminninninninninni) :	143 202 297 1141 1399 1986
bsofi (GCNGC):	85 292 312 315 318 321 332 508 519 522 567 570 672 1235 1552 1756
	2017 2024 2326 2329
bap1201 (666CCC):	533 .
bsp1286 (GDGCAC):	159 484 533 809 2152 2342
bapcni (cicagnininininini):	. 563 1050

bapel (TCCGGA):	
bephi (TCATGA):	1074
bspMI (Accrec):	2377
bspMII (TCCGGA):	2366
DSTFI(RCGGY):	2371
bsrI (ACIGGN):	384 618 1542
beskI (CCNGG) :	139 360 528 609 684 813 882 995 996 1038 1113 1137 1144 1239 1342
	1363 1602 1638 2061 2353 2354
bassi (ciccig) :	
bst4CI (ACNGT):	643 1354 1573
Detapi (GCannnnygc):	541
bstDSI (ccRYGG):	503 1516
bstF5I (GGATG):	405 606 857 1068 1203 1605 1844 1857 2175
batni (comgg):	528 609 813 882 1038 1113 1137 1144 1342 1363 1638 2061
bstul (cece):	38 331 1329
betxI (CCAnninningg) :	260 1478
batyi (RGATCY):	270 822 1609
btg1 (CCRYGG) :	503 1516
btri (cacgic):	667
btb1 (GCAGTGNN):	1992
cac81 (GCNNGC):	31 35 303 675 868 975 2020 2381
cfoI (GGGC);	330 364 525 800 1328 · ·
cfil01 (RCCGGY):	
cfri (YGGCCR):	437 500 611 657.1365 2327
cpol(cechcce):	
ospet (grac):	41 387 1296 1897 2375 2387 · ·
CBDI (CGGWCCG):	2368
ddel (CINAG):	563 1050 1265 1767
dpnI (GAIC):	271 628 786 823 960 1090 1320 1566 1599 1610 1644 1812 1817 1937

dpnII (GATC):	271 628 786 823 960 1090 1320 1566 1599 1610 1644 1812 1817 1937
	2183
draI (TTTAAA):	1914
drall (RGGNCCY):	532 558 768 1984 2142
draiii (CACNNNGIG) 1	642
dsaI (CCRYGG):	503 1516
dsav (ccngg):	139 360 528 609 684 813 882 995 996 1038 1113 1137 1144 1239 1342
•	1363 1602 1638 2061 2353 2354
eaeI (YGGCCR);	437 500 611 657 1365 2327
eagl (CGCCCG):	2327
earl (CTCTTCNNNN);	15 487 862 1100 1177
ec1136II (GAGCEC);	484 2342
eclXI (cggccg):	2327
eco571 (CTGAAG) :	250 424 474 489 804
econi (cctnnnnnagg) :	396
eco01091 (RGGNCCY):	532 558 768 1984.2142 ·
ecori (Gratic) :	55
ecoRII (CCWGG):	528 609 813 882 1038 1113 1137 1144 1342 1363 1638 2061
ecory (Gatato):	1929
fnu4HI (GCNGC):	85 292 312 315 318 321 332 508 519 522 567 570 672 1235 1552 1756
	2017 2024 2326 2329
fuudii (cgcg):	38 331 1329
foki (GGAIG) :	405 606 857 1068 1203 1605 1844 1857 2175
goul (Crecac):	96 258 325 814 883 1290
haeII (RGCGCY):	363 524 799
haeIII (GGCC) :	438 501 534 543 612 658 769 1366 1776 2328
hgaI (GACGC):	295 420
hgiai (Gwgcwc) :	484 2152 2342
hhaI (GCGC):	330 364.525 800 1328
hingi (cccc):	330 364 525 800 1328

DNA92234 [Full], page 20

GSeqEdit,

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2366
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                                                                                                                                                           hpyCH4III (ACNGT)
hincII (GTYRAC):
                                                                                                       hpy188I (TCNGA):
                                                                                                                                                                            hpyCH4IV (ACGT)
                                                    hinll (GRCGYC);
                                                                                                                                         hpy991 (CGWCG):
                                                                                                                                                                                             hpyCH4V (FGCA):
                 hindII (GTYRAC)
                                  hinfi (GANTC) :
                                                                                                                                                                                                               kpnI (GGTACC):
                                                                                                                                                                                                                                                                                   maelii (GTNAC)
                                                                                                                                                                                                                                                                                                                                     mboII (GAAGA):
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                            mscI (TGGCCA):
                                                                                                                                                                                                                                                                                                                                                                                        mluI (ACGCGT):
                                                                                                                                                                                                                                                                                                                                                                                                                                                          mroI (TCCGGA):
                                                                                                                                                                                                                                                                                                                                                      mer (CGRYCG)
                                                                                      hphI (GGTGA):
                                                                     hpall (CCGG):
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                                                                                                                                                                                                                                                maeI (CTAG):
                                                                                                                                                                                                                                                                                                    mbol (GATC):
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             msel (TTAA):
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139 139	684 996 1227 1239 16 813 882 1038 1113 11 329 315 321 357 502 535 684 995 996 1239 160 786 823 960 1090 132 36 555 1014 1075 131 534 543 612 658 769 1 585 1120 1500 2407 2142 813 882 1038 1113 113 813 882 1038 1113 113
41	96 1897 2375 2387
11	1897 2375
41	1897 2375
zmaI (CTAG):	1216 1396 1504 1805 1849 1889 2140
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520	. 61
228	813 882 1038 1113 1137 1144 1342 1363 1638
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258	
504	585 1120 1500
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. 270	533 558 640 705 991 1054 1140 1164 1295 1609 1741 1985
32	336 555 1014 1075 1315 1407 1497
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271	786 823 960 1090 1320 1566 1599 1610 1644 1812 1817
139	684 995 996 1239 1602 2353
303	315 321 357 502 535 641 650 793 802 1555
38	1329
528	813 882 1038 1113 1137 1144 1342 1363 1638
139	684 996 1227 1239 1602 2128 2354 2367
268	. 249

saci (GagCTC):	484 2342
sall (GrcGAC):	
sapi (Scicticmum) :	15 486 1099
Bau3AI (GATC):	271 628 786 823 960 1090 1320 1566 1599 1610 1644 1812 1817 1937
	2183
sau96I (GGNCC) 1	533 534 559 705 769 909 1140 1776 1985 2143 2369
sbfi (ccrecade):	2378
SCFI (CCNGG) :	. 139 360 528 609 684 813 882 995 996 1038 1113 1137 1144 1239 1342
	1363 1602 1638 2061 2353 2354
sfani (gcatc) :	1067
sfcI (CTRYAG);	10 520 2379 2400
afii (GCCCNNNNGGCC);	. FEG
smal (CCCGGG):	995 2353
amli (Ciyrag):	62 2006 2147
snaBI (TACGTA):	42
spei (ACTAGT) :	. 2336
sphi (GCATGC):	. 31
spli(ceracg):	40
sse8387I (CCTGCAGG):	. 2378
espi (Aatati) :	1528 1949
. sstI (GAGCIC):	484 2342
tail (ACGT):	26 43 149 668
taqI (TCGA):	63 443 1259 1322 2349
til (gawic) :	914 1148 1275 1829 2070
thal (cgcg):	38 331 1329
tlii (ciceag):	62
tru9I (TIAA):	175 1788 1915 1981 2220 2361
tbeI (GCWGC):	292 312 315 318 321 508 519 522 567 570 672 1235 1552 1756 2017 2024
tap45I (GISAC):	4 180 1435 2158
tap509I (AATT):	55 410 842 942 1250 1382 1623 1668 1748 1880 2107 2359 2363

SPRI (NNCAGIGNN):	1574 1821 1992 2243
th1111 (Gacningerc):	451
spi (attaat) :	1787 2219 2360
bal (TCTAGA):	1209
hoI (CTCGAG):	. 62
hoii (Rgatcy) :	270 822 1609
mal (CCCGGG):	995 2353
malif (CGGCCG):	2327
FOI (GAANNATIC)	275 1159 1270 1460 025D

found:

I (CGICIC), esp. (GCINAGC), feel (GGCCGGCC), fepl (TGCGCA), hindlil (AAGCII) (GACDNDNDNGTC), pamiliosi (GACNNNNNGTC), ecii (GGCGGA), eco47111 (AGCGCT) pmeI (GTTTAAC), pmlI (CACGIG), ppul0I (ATGCAT), psiI (TTATAA), pspl406I (AACGTT), pvuI (CGATCG), sacII (CCGCGG), sanDI (GGGWCCC) ndeI (CATATG), ngoMI (GCCGGC), nheI (GCTAGC), nruI (TCGCGA), neiI (ATGCAT), pacI (TTAATTAA), pciI (ACATGT), pflMI (CCANNNNNTGG), saul (CCINAGG), scal (AGIACI), scel (TAGGGATAACAGGGTAAI), sexal (ACCWGGT), sful (TICGAA), sgfl (GCGATCGC), sgrAI (CRCCGGYG), hpal (GTTAAC), kasi (GGCGCC), kapi (CCGCGG), mami (GATNNNNATC), matii (CCTNAGG), naai (GCCGGC), naxi (GGCGCC), ncoi (CCATGG), begi (nnnnnnnnnncannnnntgennnnnnnnnnnnnnnnnnnnnnnn), beli (tgater), bfrbi (atgert), bfri (cttag), blui (cetage) bardi (GCAATGNN), bsrgi (TGTACA), bsahii (GCGCGC), bst11071 (GTATAC), bstBi (TTCGAA), bstEii (GGTNACC), bst2171 (GTATAC), bap14071 (TGTACA), bspcI (CGATCG), bspDI (ATCGAT), barBI (GAGCGG), (NNINNINNINNINNINNINACHINNINGTAYCHINNINNINNINNIN), bbrpi (CACGTG) acli (AACGIT), afei (AGCGCT), aflii (CITAAG), ahdi (CACNNNNNGTC), alw441 (GTGCAC), apali (GTGCAC), asci (GGCGCGC) sno! (GIGCAC), sno! (GIGCAC), srf! (GCCCGGGC), sst!! (CCGCGG), stu! (AGGCCI), sty! (CCMMGG), swa! (ATTAAAI) benbI (cgrctcnnnnn), bamI (GAATGCN), bap106 (ATCGAT), bsu36I (CCINAGG), celli (GCINAGC), clai (ATCGAT), dzdI eco721 (CACGIG), eco811 (CCINAGG), eheI (GGCGCC), esp3 avalii (ATGCAT), avili (TGCGCA), avrii (CCTAGG), baei **XCMI (CCANNINNINNINNIGG)**